Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains at main and cross roads of Sharada Nagara and Mathru layout in ward no 04

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead, 8KM	77.48							
	Total	**215.28**							
		Cum							
	RCC Drain								
	Sharada Nagar								
	A Cross		1	96.00	1.10	0.90	95.04		
	2nd Cross		1	240.00	1.10	0.90	237.60		
	4th Cross		1	242.00	1.10	0.90	239.58		
	5th Cross		1	100.00	1.00	0.90	90.00		
	7th Cross		1	348.00	1.10	0.90	344.52		
				Area					
	Rain Water Harvesting pits		5	0.31		1.80	2.79		
	Culvert		3	6.00	1.50	0.90	24.30		
							1033.83	**215.28**	**222562.92**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00		Area					
	a) 40mm Jelly	Cum	5	0.31		0.40	**0.62**	**1901**	**1,178.62**
	Data rate	1901.00							
	b) 20mm Jelly	Cum	5	0.31		0.40	**0.62**	**1901**	**1,178.62**
	Data rate	2651.00							
	c) Coarse sand.	Cum	5	0.31		0.30	**0.47**	**2651**	**1,232.72**
	Data rate	2651.00							
	d) Fine Sand	Cum	5	0.31		0.20	**0.31**	**2651**	**821.81**
	Data rate	1901.00							
	e) 12.5mm chips	Cum	5	0.31		0.30	**0.47**	**1901**	**883.97**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated		5	1.80			9.00		
							9.00	**10822.32**	**97,400.88**
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03		Area					
		Sqm	5	0.31			**1.55**	**71.03**	**110.10**
5	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basic rate	5115.00							
	Area Weightage 6%	306.90							
	Total	**5421.90**							
		Cum							
	RCC Drain								
	Sharada Nagar								
	A Cross		1	96.00	1.10	0.15	15.84		
	2nd Cross		1	240.00	1.10	0.15	39.60		
	4th Cross		1	242.00	1.10	0.15	39.93		
	5th Cross		1	100.00	1.00	0.15	15.00		
	7th Cross		1	348.00	1.10	0.15	57.42		
	C.C Road								
	Sharada Nagar								
	5th Cross		1	100.00	4.50	0.15	67.50		
	Mathru Layout								
	VSR Park Opp Road		1	100.00	4.00	0.15	60.00		
	Culvert		3	6.00	1.50	0.15	4.05		
							299.34	**5421.90**	**1622991.55**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
6	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	**7070.20**							
		Cum							
	RCC Drain								
	Raft								
	Sharada Nagar								
	A Cross		1	96.00	0.90	0.15	12.96		
	2nd Cross		1	240.00	0.90	0.15	32.40		
	4th Cross		1	242.00	0.90	0.15	32.67		
	5th Cross		1	100.00	0.80	0.15	12.00		
	7th Cross		1	348.00	0.90	0.15	46.98		
	Wall								
	Sharada Nagar								
	A Cross		2	96.00	0.15	0.60	17.28		
	2nd Cross		2	240.00	0.15	0.60	43.20		
	4th Cross		2	242.00	0.15	0.60	43.56		
	5th Cross		2	100.00	0.15	0.60	18.00		
	7th Cross		2	348.00	0.15	0.60	62.64		
							321.69		
	Culvert Raft		3	6.00	1.20	0.20	4.32		
	Culvert Wall		6	6.00	0.23	0.60	4.97		
							9.29		
							330.98	**7070.20**	**2340080.66**
7	KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area Weightage 6%	4188.24							
	Total	**73992.24**							
		Tn							
	RCC Drain								
	For Drain 60kg/cum			321.69	0.06		19.30		
	For Culvert 90kg/cum			9.29	0.09		0.84		
							20.14	**73992.24**	**1490005.41**
8	Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	2337.00							
		Sqm							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	RCC Drain								
	Sharada Nagar								
	A Cross		1	96.00	0.90		86.40		
	2nd Cross		1	240.00	0.90		216.00		
	4th Cross		1	242.00	0.90		217.80		
	5th Cross		1	100.00	0.75		75.00		
	7th Cross		1	348.00	0.90		313.20		
							908.40	**2337.00**	**2122930.80**
9	Providing and fixing **RCC precast cover slab of 250mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	5418.00							
		Sqm							
	Culvert		3	6.00	1.20		21.60		
							21.60	**5418.00**	**117028.80**
10	KSRRB M200-24. **Dismantling of cement concrete pavement** by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. Loading and unloading with 8km lead= (I No-18.47,P No-140,KPWD								
	Basic rate	899.00							
	Area Weightage 6%	53.94							
	8km Lead	20.48							
	Total	**973.42**							
		Cum							
	C.C Road								
	Sharada Nagar								
	5th Cross		1	100.00	4.50	0.20	90.00		
	Mathru Layout								
	VSR Park Opp Road		1	100.00	4.00	0.18	72.00		
							162.00	**973.42**	**157694.04**
11	**Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound(P.No-176,I No-22.6.1)								
	Basic rate	4916.00							
	Area Weightage 6%	294.96							
	Total	**5210.96**							
		Cum							
	C.C Road								
	Sharada Nagar								
	5th Cross		1	100.00	4.50	0.15	67.50		
	Mathru Layout								
	VSR Park Opp Road		1	100.00	4.00	0.15	60.00		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
							127.50	5210.96	664397.40
								Total Construction Cost	8840498.30
								Towards GST 12%	1060859.80
								PMC Charges 1%	97,500.00
								Sub Total	9998858.09
								Miscellaneous & Rounding Off	141.91
								Total	9999000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 02-07-2020 and Data Rates

Assistant Engineer
Ward 04
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Administrative Sanction for Rs. 99.99 lakhs
.....
.....
is accorded under head P-3768
.....
.....
Registered as CE No. ..... Subject to condi... ...tained ... ...ed memo No. EE/YNKIAS/22/2020-21 Dt. 9/8/2020

Executive Engineer

Technical Sanction
Accorded For Rs 99.99 lakhs only
Head of A/C P3768
CER NO : 105 Dt. 28/8/2020

TA — CE (YNK)

Silicon Consulting Engineers
#51317, 4th CROSS BEL
2nd STAGE BHARATH NAGAR
BANGALORE 560 091.

Improvements To Roads and drains at main and cross roads of Sharada Nagara and Mathru layout in Ward NO:4

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Sharada layout and Mathru layout

BANK ATM

SFS 208
4th Phase

Main Rd

Yelahanka Main Rd

BBMP Office
Ward No.03

Shobha Boutique |
Designer clothing sto

Udupi Grand Vegetarian

YES Bank

Cold Smith Ice Creams
Takeout

Fisher & Paykel
Healthcare India Pvt Ltd

A Cross Rd
L-96.00m

KMF Mother Dairy

Barbeque Nation -
Bengaluru - Yelahanka
Takeout

SREE SAIPRASAD
Multi Speciality Hospital

NCC Urban
Nagarjuna Aster Park

Airtel Store

Sri Jai Hanuman
Devasthana (Temple)

1st Cross Rd

2nd Cross Rd
L-240.00m

2nd Cross Rd

1st Main Rd

3rd Cross Rd

4th Cross Rd
L-242.00m

4th Cross Rd

5th Cross Rd

5th Cross Rd
L-100.00m

6th Cross Rd

7th Cross Rd
L-348.00m

7th Cross Rd

16th B Cross Rd

14th B Cross

Micromax Care

Hotel Am
Delivery

17th B Cross Rd

20th Cross Rd

16th B

18th B Cross Rd

Sri Varasiddi
Vinayaka, Sri Durga...

Axis Bank ATM

Hoysala
Ground

1st Main Rd

Google

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-105

CLIENT:
BRUHAT BANGALORE
MAHANAGARA PALIKE

CONSULTANT:-
Silicon Consulting Engineers
#S1317, 4th CROSS BEL
2nd STAGE BHARATH NAGAR
BANGALORE 560 091.
E-mail siliconcivilengineers@gmail.com

Dwg Title:
Improvements To Roads and drains at main and cross roads of
Sharada Nagara and Mathru layout in Ward NO:4

Scale: N.T.S
Date: